

## **ABSTRACT**

A composite printhead supporting structure for a pagewidth printhead assembly is  
5 provided. The assembly has a plurality of similar or identical printhead modules (2)  
disposed along its length. The structure comprises a composite beam elongated in the  
direction of the printhead and is at least as long as the printhead. The beam is formed from  
odd number of uninterrupted layers (3, 4, and 5), there being a pair of outer layers (3, 4) of  
equal thickness symmetrically disposed about and laminated to a core. The coefficient of  
10 thermal expansion of the core (5) and the outer layers provides a coefficient of expansion,  
in the beam as a whole, substantially equal to that of the modules. The modules are  
preferably formed from a silicon substrate.